**First Pre- Board - XII, 2007 :: Date -**
**INFORMATICS PRACTICES**

Time allowed : 3 hours Maximum Marks : 70

***Note :***

*(i) All questions are compulsory.*
*(ii)* ***Section A*** *consists of 30 marks.*
*(iii)* ***Section B*** *and* ***Section C*** *are of 20 marks each.*
*(iv) Answer the questions after carefully reading the text.*

## SECTION A

**1.** Answer the following questions :

a) What is a Freeware ? Give example. 2
b) Write in brief about the following – a) Mozilla b) Tomcat 2
c) Differentiate between economical feasibility and operational feasibility in system analysis. 3
d) What are the common features of a traditional database application ? 3

**2**. Answer the following questions:

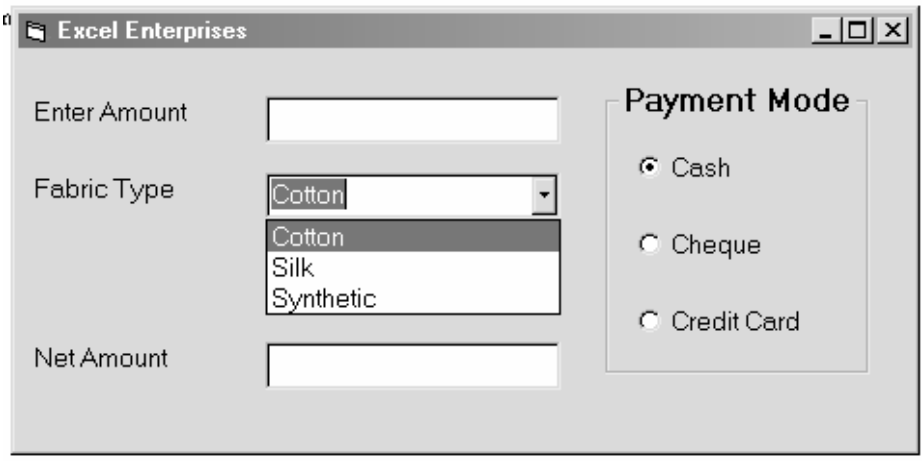
a) What is meant by variable lifetime ? How is static variable different from other variables ? 2
b) What are the different types of modules ? Write about their importance in VB programming. 2
c) What is focus ? When do GotFocus and LostFocus events occur ? 2
d) Differentiate between Call By Value and Call By Reference method of passing parameters into a procedure. 4

3. Answer the following questions :

a) What is meant by Normalisation ? Define second normal form. 2
b) What is Transaction ? Differentiate Commit and Rollback statements. 2
c) Define Cursor. What is meant by Context Area ? 2
d) What is PL/SQL ? What are the advantages of PL/SQL ? 4

## SECTION B

**4.** Excel Enterprise is a company, which deals in garments. The company has three departments - Cotton, Silk and Synthetic.




The company accepts payments in three modes – by cheque, cash and by credit card. The company offers the discount scheme on each purchase for customer as follows –

a) For Cotton
   Purchase above 5000 and avail discount 10%
   Purchase above 7500 and avail discount 15%
b) For Silk
   Purchase above 5000 and avail discount 5%
   Purchase above 7500 and avail discount 10%
c) For Synthetic
   Purchase above 5000 and avail discount 15%
   Purchase above 7500 and avail discount 20%

Now, if the customer is paying by cash an additional 2% discount, if by cheque no discount, if by credit card 2.5% tax is to be paid by the customer.

a) Write the command to by default make the option Cash available. 1
b) Write the code to clear txtAmount, disable txtNetAmount and then set the focus in txtAmount. 2
c) Write a procedure CallDiscount( ) to calculate the discount after selecting the type of cloth from the ComboBox named cmbFabType. 3

d) Write the code which will call CalDiscount( ) and display the net price after selecting the mode of payment. 4

**5.** Answer the following questions –

a) Identify the error(s), correct and re-write the code – 2

```
Private Sub Command1_Click ( )
      For i = 1 Upto 50
            if i mod 5 = 0
            p = 1
            Display - i is divisible by 5.
            Else
            Display - i is not divisible by 5.
      Next
End Sub
```

b) Find the output of the following code segment – 2

```
Private Sub Command1_Click ( )
      Dim w As Integer, x as Integer
      w = 20
      x = 0
      Do while w < 20
            Print w * x
            If x = 10 then
                  w = 20
            else
                  x = x + 2
                  w = w – 3
            End if
      Loop
```

c) Re-write the following code using *For … Next – loop* : 2

```
x = 10
c = InputBox (“Enter a number”)
Do While c >=1
Print x
x = x + 2
c = c – 2
Loop
```

d) Write a Visual Basic function that accepts a string value and returns number of vowels present therein. 4

**SECTION C**

**6.** Read the questions given below and answer accordingly –

a) Write the output produced by the following part of code in PL/SQL : 2

```
Declare
A Number(3);
B Number(3);
Begin
A := 2;
For B in 1..5
Loop
A := A * B;
DBMS_OUTPUT.PUT_LINE(A);
End Loop;
End;
```

b) Find the errors from the following PL/SQL code and re-write the corrected code underlining the correction made - 2

```
Declare
      V_no Employee.Empno%Rowtype;
      V_sal number(8,2) :=1000;
Begin
      Loop
      Select Sal To V_sal from Employee where Eno = V_no;
      V_no = V_no + 1;
      Exit for V_no > 5;
      End Loop;
End;
```

c) Distinguish between PL/SQL function block and PL/SQL procedure block with suitable example. 2

d) Write a PL/SQL stored procedure that accepts two numbers as IN parameters and return the result of their division as OUT parameter. Write proper EXCEPTION handler for any possible run-time error. . 4

**7.** Answer the following based on the two tables given below –

**DEPARTMENT**

| Column Name | Data type | Size | Constraint |
|---|---|---|---|
| DEPT_NO | NUMBER | 5 | Primary Key |
| DEPT_NAME | VARCHAR | 10 | Not null |

**TEACHER**

| Column Name | Data type | Size | Constraint |
|---|---|---|---|
| TNO | CHAR | 4 | Primary Key |
| TNAME | VARCHAR | 20 | NOT NULL |
| TADDRESS | VARCHAR | 30 | |
| SALARY | NUMBER | 7,2 | >2000 (greater than 2000) |
| DEPT_NO | NUMBER | 5 | Foreign key Department (DEPT_NO) |
| DOJ | DATE | | NOT NULL |

a) Write SQL command to create table TEACHER including its constraints. 2

b) Create a view based on the tables TEACHER and DEPARTMENT to show TNAME,DEPT_NAME,SALARY and DOJ of teachers whose date of joining between '1-1-2005' to '31-12-2006'. 2

c) Write a cursor to display all the teachers' records from TEACHER table who are getting salary below 10000. 3

d) Write a before trigger to raise error when user inserts salary greater than 25000 in the TEACHER table. 3